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NOTICE OF ALLOWANCE AND FEE(S) DUE

29175

7590

04/02/2008

BELL, BOYD & LLOYD, LLP P. O. BOX 1135 CHICAGO, IL 60690 EXAMINER

LULIS, MICHAEL P

ART UNIT PAPER NUMBER

2824 DATE MAILED: 04/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,237	07/19/2005	Eriko Matsui	112857-457	1612

TITLE OF INVENTION: FUNCTIONAL MOLECULAR ELEMENT AND FUNCTIONAL MOLECULAR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including ed below or directed other tions	ng the Patent, advance on nerwise in Block 1, by (a	ders and notification of n a) specifying a new corres	naintenance fees w pondence address;	ill be r and/or	nailed to the current (b) indicating a sepa	correspondence address as urate "FEE ADDRESS" for
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BELL, BOYD P. O. BOX 1135 CHICAGO, IL 6		/2008		Cart	ificato	of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
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			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1440	\$300	\$ 0		\$1740	07/02/2008
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CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorness of the control of th	ne of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is ame will be printed.			
(A) NAME OF ASSIG	GNEE		(B) RESIDENCE: (CITY	and STATE OR C	OUNT	RY)	ocument has been filed for
4a. The following fee(s) a ☐ Issue Fee ☐ Publication Fee (N) ☐ Advance Order - #	are submitted: To small entity discount p	4t permitted)	o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	se first reapply and I. Form PTO-2038 authorized to char	y previ	iously paid issue fee sched. equired fee(s), any de	shown above)
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no long				
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10/540,237	07/19/2005	Eriko Matsui	112857-457	1612	
29175 7590 04/02/2008			EXAMINER		
BELL, BOYD &	LLOYD, LLP	LULIS, MICHAEL P			
P. O. BOX 1135	-0.0		ART UNIT	PAPER NUMBER	
CHICAGO, IL 606	90		2824		
			DATE MAILED: 04/02/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 35 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 35 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/540,237	MATSUI ET AL.
Notice of Allowability	Examiner	Art Unit
	MICHAEL LULIS	2824
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS . This application is subject to and MPEP 1308.	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>Pre-Brief Conference</u>	request filed 02/11/2008.	
2. \square The allowed claim(s) is/are <u>1-3,6-8,11-13 and 15-18</u> .		
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" onted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give submit including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO	national stage application from the complying with the requirements 2'S AMENDMENT or NOTICE OF ation is deficient.
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the statement sheet in the statement sheet in the statement sheet in the statement sheet. 	.84(c)) should be written on the drawi	ings in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the deposition attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 03/05/2008 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal I 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other /Richard T. Elms/ SPE AU 2824 3.28.08	/ (PTO-413), tte

REASONS FOR ALLOWANCE

Claims 1-3, 6-8, 11-13, and 15-18 are allowed.

The following is an examiner's statement of reasons for allowance: The rejections set forth in the final office action mailed 10/09/2007 are withdrawn in view of the panel decision from pre-appeal brief review of 03/24/2008.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 03/05/2008 has been considered.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Zhang et al. (US 6,674,932 B1) discloses a functional molecular element comprising: a molecule with permittivity anisotropy and/or a dipole moment; a metal ion complex; and a conjugated molecule, wherein the conductivity of the conjugated molecule is changed by changing an orientation of the molecule with the permittivity anisotropy and/or the dipole moment by an action of an electric field (col. 9 II. 10-44). Zhang does not disclose or fairly suggest that the molecule with permittivity anisotropy and/or the dipole moment and the conjugated molecule form a complex with the metal ion.

Art Unit: 2824

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL LULIS whose telephone number is (571)272-9015. The examiner can normally be reached on 10:00 AM to 6:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Lulis/ Examiner, Art Unit 2824

/Richard Elms/

Supervisory Patent Examiner, Art Unit 2824

Application/Control Number: 10/540,237 Page 4

Art Unit: 2824

3.28.08